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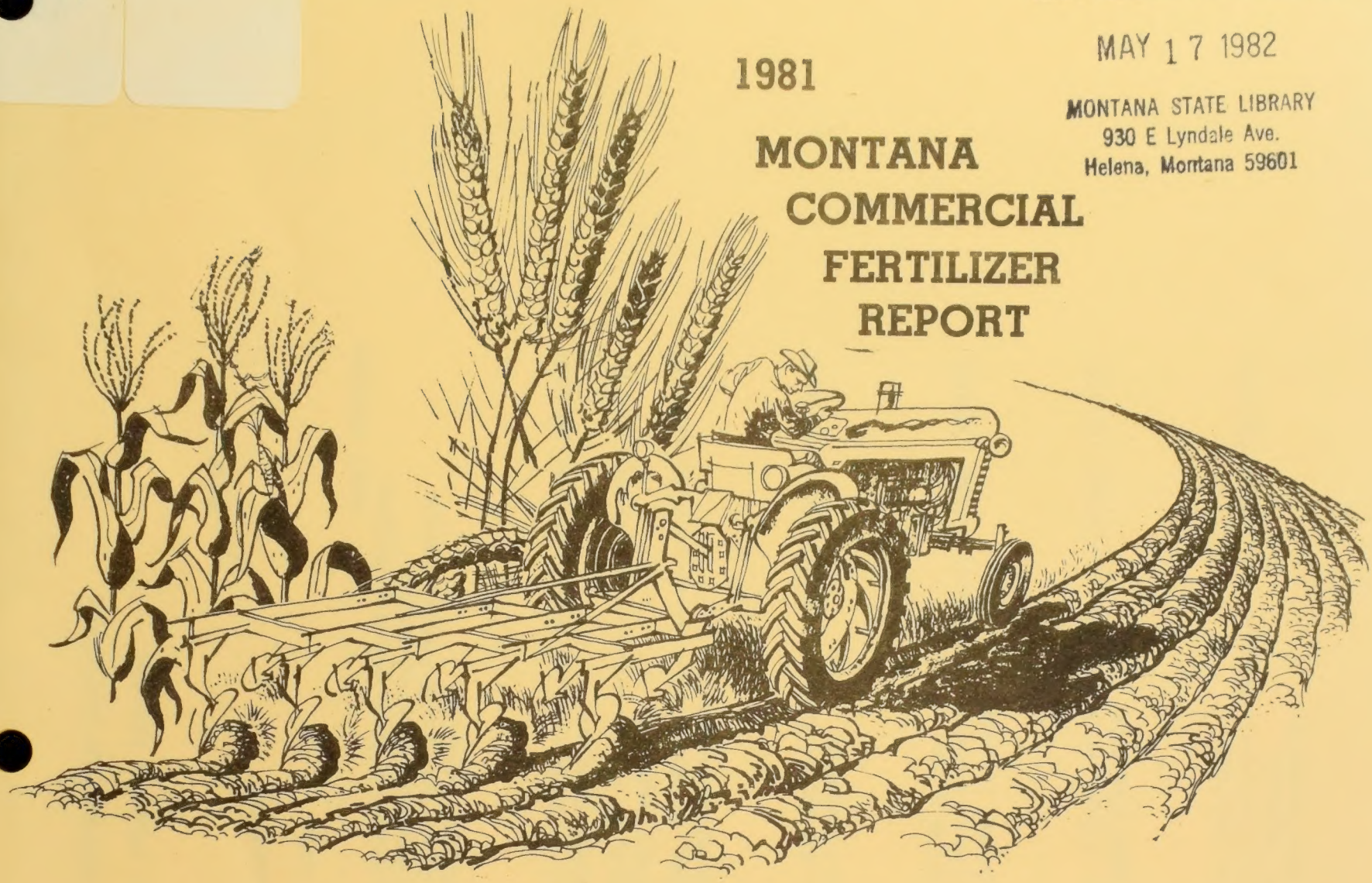

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MONTANA DEPARTMENT OF AGRICULTURE

Plant Industry Division

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This report consists of the following sections:

Commercial.....Pages 1-11

Soil Amendment.....Page 11

Specialty.....Pages 12-15

Statistical.....Pages 16-19

Abbreviations used:

P_2O_5.....available phosphoric acid

K_2O.....soluble potash

C.....claimed

F.....found

ppm.....parts per million

*.....deficiency

COMMERCIAL FERTILIZER ANALYSIS

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
BAY ZINC COMPANY Box 167 Moxee City, WA 98936												
Blu-Min Zinc	Three Forks	5553	bag							Zinc	18	17.6
BEKER INDUSTRIES, CORPORATION 124 West Putnam Avenue Greenwich, CT 06830												
18-46-0	Bridger	5498	bulk	18	17.4	46	46.4					
11-53-0	Geraldine	5573	bulk	11	10.6	53	53.6					
18-46-0	Lambert	5655	bulk	18	17.3	46	46.3					
11-53-0	Lewistown	5704	bulk	11	11.1	53	53.5					
18-46-0	Conrad	5768	bulk	18	17.7	46	46.5					
11-53-0	Conrad	5770	bulk	11	11.0	53	53.2					
11-53-0	Gt. Falls	5774	bulk	11	10.9	53	53.3					
18-46-0	Wolf Point	5781	bulk	18	17.9	46	45.9					
18-46-0	Billings	5788	bulk	18	17.4	46	46.7					
18-46-0	Billings	5789	bulk	18	17.8	46	46.5					
11-53-0	Havre	5806	bulk	11	10.5	53	53.2					
18-46-0	Havre	5822	bulk	18	18.0	46	46.0					
18-46-0	Fairview	5837	bulk	18	16.7*	46	45.4					
11-53-0	Harlowton	5844	bulk	11	10.8	53	53.6					
18-46-0	Harlowton	5846	bulk	18	17.5	46	46.1					
11-53-0	Laurel	5859	bulk	11	10.6	53	53.0					
18-46-0	Hardin	5873	bulk	18	17.6	46	46.7					
18-46-0	Circle	5884	bulk	18	18.2	46	46.0					
11-53-0	Carter	5894	bulk	11	11.2	53	52.9					
CARGILL, INC. Joplin, MT 59531												
18-46-0	Havre	5511	bulk	18	18.2	46	46.1					
16-20-0	Havre	5512	bulk	16	16.1	20	21.6					
11-55-0	Fort Benton	5892	bulk	11	11.1	55	55.6					
CHEVRON CHEMICAL COMPANY 940 Hensley Richmond, CA 94804												
34-0-0	Stevensville	5486	bulk	34	33.6							
16-16-16	Stevensville	5487	bulk	16	15.7	16	16.0	16	15.6			
22-22-0	Stevensville	5488	bulk	22	21.9	22	21.3					
27-12-0	Deer Lodge	5569	bulk	27	26.1*	12	11.9					
34-0-0	Deer Lodge	5570	bulk	34	34.1							
Ortho Unipel 16-16-16	Billings	5540	bag	16	15.8	16	15.6	16	15.8			
34-0-0	Shelby	5587	bulk	34	34.1							
27-12-0	Dillon	5604	bulk	27	25.8*	12	12.2					

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
CHEVRON CHEMICAL COMPANY (continued)												
34-0-0	Dillon	5609	bulk	34	33.7							
34-0-0	Dillon	5611	bulk	34	33.8							
30-0-0	Dillon	5613	bulk	30	29.0*							
27-12-0	Helena	5615	bulk	27	26.2	12	12.3					
34-0-0	Helena	5616	bulk	34	34.1							
16-20-0	Helena	5617	bulk	16	16.2	20	20.6					
27-12-0	Sheridan	5633	bulk	27	26.3	12	12.2					
34-0-0	Sheridan	5634	bulk	34	33.8							
0-0-60	Missoula	5639	bulk					60	61.0			
16-16-16	Missoula	5642	bag	16	16.0	16	15.7	16	15.3			
34-0-0	Hamilton	5635	bulk	34	33.8							
34-0-0	Kalispell	5668	bulk	34	33.7							
30-0-0	Kalispell	5669	bulk	30	29.7							
34-0-0	Kalispell	5671	bulk	34	33.7							
11-55-0	Ronan	5676	bulk	11	11.3	55	55.7					
34-0-0	Ronan	5677	bulk	34	33.9							
16-16-16	Ronan	5678	bulk	16	15.8	16	16.1	16	15.3			
34-0-0	Lewistown	5703	bulk	34	33.9							
34-0-0	Conrad	5769	bulk	34	34.0							
34-0-0	Harlowton	5847	bulk	34	34.0							
34-0-0	Laurel	5861	bulk	34	34.5							
34-0-0	Carter	5895	bulk	34	34.3							
COMINCO AMERICAN, INC. Box 3087 Spokane, WA 99220												
0-0-60	Bridger	5499	bulk					60	61.2			
46-0-0	Lewistown	5542	bulk	46	46.2							
18-46-0	Lewistown	5543	bulk	18	18.3	46	47.1					
11-55-0	Lewistown	5544	bulk	11	11.3	55	56.5					
0-0-60	Lewistown	5545	bulk					60	60.5			
11-55-0	Belgrade	5555	bulk	11	11.1	55	57.0					
46-0-0	Belgrade	5557	bulk	46	45.8							
11-55-0	Belgrade	5558	bulk	11	10.9	55	55.5					
16-20-0	Geraldine	5574	bulk	16	16.1	20	21.7					
20-0-0	Geraldine	5575	bulk	40	41.0					Sulfur	6	4.9*
16-20-0	Shelby	5588	bulk	16	16.4	20	21.1					
0-0-60	Dillon	5608	bulk					60	60.0			
0-0-60	Dillon	5612	bulk					60	60.4			
0-0-60	Hamilton	5636	bulk					60	60.3			
16-20-0	Hamilton	5638	bulk	16	16.3	20	20.6					
16-20-0	Missoula	5640	bulk	16	15.8	20	23.6					
11-55-0	Missoula	5641	bulk	11	11.2	55	55.4					
34-0-0	Sidney	5646	bulk	34	34.2							
11-55-0	Kalispell	5670	bulk	11	11.1	55	56.2					
16-20-0	Kalispell	5671	bulk	16	16.1	20	20.7					

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
COMINCO AMERICAN, INC. (continued)												
0-0-60	Kalispell	5672	bulk					60	59.6			
11-55-0	Kalispell	5673	bulk	11	12.1	55	53.2*					
34-0-0	Kalispell	5674	bulk	34	33.7							
21-0-0	Ronan	5675	bulk	21	20.7					Sulfur	24	24.6
18-46-0	Ronan	5679	bulk	18	18.0	46	46.0					
16-20-0	Ronan	5680	bulk	16	16.3	20	20.6			Sulfur	15	15.4
18-46-0	Lewistown	5701	bulk	18	18.3	46	48.1					
18-46-0	Denton	5705	bulk	18	17.8	46	46.5					
11-55-0	Denton	5707	bulk	11	11.2	55	55.7					
46-0-0	Denton	5708	bulk	46	46.0							
0-0-60	Denton	5709	bulk					60	60.0			
21-0-0	Stevensville	5712	bulk	21	20.8							
21-0-0	Townsend	5799	bulk	21	21.0					Sulfur	24	24.5
46-0-0	Conrad	5767	bulk	46	46.2							
0-0-60	Harlowton	5845	bulk					60	61.0			
18-46-0	Laurel	5856	bulk	18	17.3	46	46.2					
46-0-0	Laurel	5857	bulk	46	46.2							
16-20-0	Laurel	5858	bulk	16	16.0	20	20.6					
0-0-60	Laurel	5860	bulk					60	60.8			
11-55-0	Hardin	5867	bulk	11	11.1	55	55.5					
18-46-0	Hardin	5870	bulk	18	18.2	46	46.4					
34-0-0	Fort Benton	5893	bulk	34	34.2							
11-55-0	Geraldine	5900	bulk	11	11.1	55	55.2					
46-0-0	Geraldine	5903	bulk	46	46.4							
16-20-0	Geraldine	5904	bulk	16	15.9	20	22.5					
34-0-0	Culbertson	5907	bulk	34	34.0							
46-0-0	Culbertson	5908	bulk	46	46.4							
11-55-0	Culbertson	5909	bulk	11	11.2	55	55.2					
CONAGRA, INC. Box 112 Belgrade, MT 59714												
Blend	Belgrade	5627	bulk	27	26.5	14	15.9			Sulfur	4	4.3
Blend	Belgrade	5628	bulk	30	30.3	10	9.1*					
11-51-0	Big Timber	5848	bulk	11	11.7	51	50.6					
34-0-0	Big Timber	5849	bulk	34	34.3							
18-46-0	Big Timber	5850	bulk	18	18.0	46	46.4					
CONAGRA, INC. Box 2211 Cut Bank, MT 59427												
11-51-0	Kalispell	5841	bulk	11	11.8	51	51.6					
46-0-0	Kalispell	5843	bulk	46	45.4							
CONAGRA, INC. Box 2548 Great Falls, MT 59403												

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
CONAGRA, INC. (continued)												
0-0-60	Hardin	5496	bulk					60	62.1			
CONAGRA, INC. Box 571 Havre, MT 59501												
18-46-0	Hingham	5827	bulk	18	18.1	46	46.0					
0-0-60	Hingham	5828	bulk					60	62.5			
46-0-0	Hingham	5825	bulk	46	46.1							
EXXON CHEMICAL COMPANY Box 3272 Houston, TX 77001												
34-0-0	Hardin	5493	bulk	34	33.6							
18-46-0	Hardin	5494	bulk	18	17.9	46	45.9					
18-46-0	Havre	5505	bulk	18	17.6	46	46.4					
34-0-0	Harve	5506	bulk	34	34.3							
11-51-0	Havre	5508	bulk	11	11.6	51	51.3					
16-20-0	Havre	5509	bulk	16	16.3	20	21.0					
18-46-0	Harlem	5514	bulk	18	17.8	46	46.1					
18-46-0	Gt. Falls	5524	bulk	18	17.9	46	46.8					
34-0-0	Gt. Falls	5526	bulk	34	34.2							
11-51-0	Gt. Falls	5528	bulk	11	11.6	51	51.7					
34-0-0	Billings	5537	bag	34	33.3*							
16-20-0	Billings	5538	bag	16	15.9	20	24.1					
18-46-0	Billings	5539	bag	18	17.7	46	46.9					
18-46-0	Lewistown	5549	bulk	18	18.2	46	46.2					
11-51-0	Ryegate	5582	bulk	11	11.6	51	53.3					
18-46-0	Ryegate	5584	bulk	18	17.9	46	47.0					
34-0-0	Ryegate	5586	bulk	34	34.1							
45-0-0	Cut Bank	5589	bulk	45	46.2							
11-51-0	Cut Bank	5590	bulk	11	11.3	51	52.4					
16-20-0	Cut Bank	5591	bulk	16	15.9	20	23.4					
18-46-0	Cut Bank	5592	bulk	18	17.7	46	47.7					
11-48-0	Cut Bank	5594	bulk	11	11.5	48	49.8					
34-0-0	Belgrade	5629	bulk	34	34.0							
11-51-0	Belgrade	5630	bulk	11	11.7	51	51.1					
16-20-0	Belgrade	5631	bulk	16	16.0	20	21.0			Sulfur	14	14.1
18-46-0	Belgrade	5632	bulk	18	17.6	46	45.1*					
46-0-0	Lewistown	5696	bulk	46	46.8							
0-0-60	Lewistown	5697	bulk					60	61.0			
18-46-0	Lewistown	5698	bulk	18	17.9	46	47.6					
11-51-0	Lewistown	5699	bulk	11	11.7	51	52.5					
21-0-0	Lewistown	5700	bulk	21	21.1							
34-0-0	Gt. Falls	5771	bulk	34	34.1							
18-46-0	Gt. Falls	5775	bulk	18	17.9	46	46.5					
18-46-0	Townsend	5801	bulk	18	17.8	46	47.3					

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
EXXON CHEMICAL COMPANY (continued)												
46-0-0	Havre	5804	bulk	46	46.1							
18-46-0	Havre	5805	bulk	18	17.8	46	46.0					
11-51-0	Havre	5809	bulk	11	11.5	51	51.3			Sulfur	2.5	1.8*
11-51-0	Havre	5820	bulk	11	10.5	51	50.5					
18-46-0	Billings	5852	bulk	18	17.8	46	46.7					
16-20-0	Billings	5853	bulk	16	16.4	20	20.5					
11-51-0	Billings	5854	bulk	11	11.4	51	51.6					
18-46-0	Hardin	5872	bulk	18	17.8	46	46.7					
34-0-0	Hardin	5876	bulk	34	34.2							
18-46-0	Ronan	5888	bulk	18	17.9	46	46.9					
FARMERS UNION CENTRAL EXCHANGE Box 43089 St. Paul, MN 55164												
46-0-0	Hardin	5489	bulk	46	45.8							
0-0-60	Hardin	5490	bulk					60	60.5			
11-51-0	Hardin	5491	bulk	11	10.9	51	51.3					
18-46-0	Hardin	5492	bulk	18	18.0	46	47.1					
11-51-0	Havre	5501	bulk	11	11.0	51	51.2					
46-0-0	Havre	5502	bulk	46	45.4							
0-0-60	Havre	5503	bulk					60	60.6			
18-46-0	Havre	5504	bulk	18	17.9	46	47.2					
46-0-0	Harlem	5513	bulk	46	46.3							
16-20-0	Chinook	5515	bulk	16	16.1	20	21.7					
18-46-0	Chinook	5516	bulk	18	18.1	46	47.1					
0-45-0	Chinook	5517	bulk			45	45.1					
46-0-0	Chinook	5518	bulk	46	46.1							
0-0-60	Big Sandy	5519	bulk					60	62.1			
11-51-0	Big Sandy	5520	bulk	11	11.0	51	52.4					
18-46-0	Big Sandy	5521	bulk	18	17.4	46	46.4					
46-0-0	Big Sandy	5522	bulk	46	46.0							
11-51-0	Chinook	5523	bulk	11	10.9	51	52.2					
34-0-0	Gt. Falls	5529	bulk	34	34.0							
11-51-0	Gt. Falls	5530	bulk	11	10.8	51	51.1					
11-51-0	Gt. Falls	5531	bulk	11	11.5	51	51.6					
16-20-0	Gt. Falls	5532	bulk	16	16.2	20	21.8					
18-46-0	Gt. Falls	5534	bulk	18	18.0	46	46.0					
11-51-0	Lewistown	5546	bulk	11	10.4	51	51.3					
46-0-0	Lewistown	5547	bulk	46	46.3							
0-0-60	Lewistown	5548	bulk					60	61.8			
16-20-0	Townsend	5559	bulk	16	15.8	20	20.4					
18-46-0	Townsend	5560	bulk	18	17.6	46	46.3					
46-0-0	Townsend	5561	bulk	46	45.6							
18-46-0	Three Forks	5562	bulk	18	17.7	46	46.7					
16-20-0	Three Forks	5563	bulk	16	15.8	20	21.7					
18-46-0	Three Forks	5564	bulk	18	17.5	46	46.2					

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	 F	P_2O_5 C	 F	K_2O C	 F	MICRONUTRIENTS 	C	F
FARMERS UNION CENTRAL EXCHANGE (continued)												
11-51-0	Three Forks	5565	bulk	11	10.8	51	52.6					
21-0-0	Three Forks	5566	bulk	21	20.8							
34-0-0	Three Forks	5567	bulk	34	34.0							
0-0-60	Three Forks	5568	bulk					60	62.9			
18-46-0	Geraldine	5576	bulk	18	18.0	46	46.7					
21-0-0	Geraldine	5577	bulk	21	20.9							
11-51-0	Geraldine	5578	bulk	11	11.0	51	52.5					
18-46-0	Geraldine	5579	bulk	18	18.0	46	48.2					
34-0-0	Geraldine	5580	bulk	34	33.4							
0-0-60	Geraldine	5581	bulk					60	60.6			
21-0-0	Cut Bank	5595	bulk	21	20.8							
11-51-0	Cut Bank	5596	bulk	11	10.9	51	51.1					
18-46-0	Cut Bank	5597	bulk	18	17.7	46	46.0					
0-0-60	Cut Bank	5598	bulk					60	60.1			
46-0-0	Cut Bank	5599	bulk	46	46.0							
11-51-0	Valier	5600	bulk	11	10.9	51	52.3					
0-0-60	Valier	5601	bulk					60	61.5			
18-46-0	Valier	5602	bulk	18	17.1	46	45.6					
0-44-0	Valier	5603	bulk			44	44.5					
46-0-0	Valier	5618	bulk	46	45.8							
18-46-0	Valier	5619	bulk	18	17.4	46	46.2					
0-44-0	Valier	5620	bulk			44	45.2					
11-51-0	Valier	5621	bulk	11	10.9	51	50.8					
0-0-60	Valier	5622	bulk					60	60.8			
18-46-0	Fairview	5643	bulk	18	17.9	46	46.8					
0-0-60	Fairview	5644	bulk					60	61.0			
34-0-0	Fairview	5645	bulk	34	34.2							
46-0-0	Lambert	5650	bulk	46	45.8							
11-51-0	Lambert	5651	bulk	11	10.8	51	51.2					
18-46-0	Lambert	5652	bulk	18	17.2*	46	46.2					
11-51-0	Circle	5653	bulk	11	10.9	51	51.2					
18-46-0	Lambert	5654	bulk	18	17.8	46	46.9					
21-0-0	Kalispell	5658	bulk	21	20.8					Sulfur	24	24.7
11-51-0	Kalispell	5663	bulk	11	10.9	51	50.9					
0-0-60	Kalispell	5664	bulk					60	60.3			
0-0-50	Kalispell	5665	bulk					50	50.8	Sulfur	15	17.6
34-0-0	Kalispell	5666	bulk	34	33.8							
16-20-0	Kalispell	5667	bulk	16	15.8	20	20.4					
16-20-0	Columbus	5682	bulk	16	15.8	20	20.8					
0-0-60	Columbus	5683	bulk					60	61.9			
18-46-0	Columbus	5684	bulk	18	17.6	46	45.5					
34-0-0	Columbus	5685	bulk	34	33.9							
0-44-0	Columbus	5686	bulk			44	44.3					
34-0-0	Power	5687	bulk	34	34.1							
18-46-0	Power	5688	bulk	18	17.8	46	46.2					
21-0-0	Power	5689	bulk	21	20.8							

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
FARMERS UNION CENTRAL EXCHANGE (continued)												
11-51-0	Dutton	5690	bulk	11	10.8	51	51.3					
0-0-60	Dutton	5691	bulk					60	60.4			
18-46-0	Dutton	5692	bulk	18	17.8	46	46.1					
0-0-60	Dutton	5695	bulk					60	62.0			
0-0-60	Stevensville	5710	bulk					60	59.5			
34-0-0	Stevensville	5711	bulk	34	33.7							
16-20-0	Stevensville	5713	bulk	16	16.0	20	20.7					
18-46-0	Stevensville	5714	bulk	18	18.0	46	46.2					
0-44-0	Glasgow	5778	bulk			44	44.0					
46-0-0	Glasgow	5779	bulk	46	45.9							
18-46-0	Wolf Point	5780	bulk	18	18.1	46	46.4					
34-0-0	Helena	5785	bulk	34	32.0							
11-51-0	Helena	5786	bulk	11	10.9	51	50.7					
46-0-0	Billings	5790	bulk	46	46.1							
34-0-0	Billings	5791	bulk	34	34.1							
18-46-0	Billings	5792	bulk	18	18.1	46	46.4					
21-0-0	Billings	5793	bulk	21	21.0							
11-51-0	Billings	5794	bulk	11	10.4	51	51.1					
0-0-62	Billings	5795	bulk					62	63.1			
11-51-0	Billings	5796	bulk	11	10.7	51	50.7					
34-0-0	Billings	5797	bulk	34	34.0							
16-20-0	Townsend	5800	bulk	16	15.9	20	19.8			Sulfur	14	15.4
0-44-0	Townsend	5802	bulk			44	45.0					
18-46-0	Harlem	5810	bulk	18	17.6	46	46.1					
46-0-0	Harlem	5811	bulk	46	46.2							
0-0-60	Harlem	5812	bulk					60	60.0			
21-0-0	Harlem	5813	bulk	21	21.1					Sulfur	24	25.0
0-44-0	Harlem	5814	bulk			44	44.9					
16-20-0	Chinook	5815	bulk	16	16.0	20	20.4					
0-0-60	Chinook	5816	bulk					60	61.8			
46-0-0	Chinook	5817	bulk	46	46.2							
11-51-0	Chinook	5818	bulk	11	10.7	51	49.2*					
18-46-0	Chinook	5819	bulk	18	18.1	46	46.4					
46-0-0	Havre	5823	bulk	46	46.4							
21-0-0	Havre	5824	bulk	21	21.0					Sulfur	24	24.8
16-20-0	Rudyard	5830	bulk	16	16.0	20	19.8			Sulfur	14	15.5
21-0-0	Rudyard	5831	bulk	21	21.0					Sulfur	24	24.9
18-46-0	Rudyard	5832	bulk	18	18.0	46	46.4					
11-51-0	Rudyard	5834	bulk	11	10.8	51	51.6					
46-0-0	Rudyard	5835	bulk	46	46.4							
11-51-0	Hardin	5868	bulk	11	10.5	51	52.1					
0-0-60	Hardin	5869						60	60.7			
46-0-0	Hardin	5871	bulk	46	46.2							
11-53-0	Gt. Falls	5877	bulk	11	10.5	53	53.1					
16-20-0	Gt. Falls	5879	bulk	16	15.8	20	20.4					
34-0-0	Gt. Falls	5880	bulk	34	34.2							

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
FARMERS UNION CENTRAL EXCHANGE (continued)												
18-46-0	Gt. Falls	5881	bulk	18	17.7	46	46.7					
18-46-0	Savage	5882	bulk	18	17.9	46	47.2					
34-0-0	Savage	5883	bulk	34	34.6							
11-51-0	Circle	5885	bulk	11	10.9	51	51.0					
11-51-0	Gt. Falls	5886	bulk	11	11.3	51	51.0					
0-0-60	Ronan	5889	bulk					60	62.1			
0-44-0	Ronan	5890	bulk			44	45.3					
46-0-0	Ronan	5891	bulk	46	46.1							
34-0-0	Geraldine	5896	bulk	34	34.3							
21-0-0	Geraldine	5897	bulk	21	21.0							
0-0-60	Geraldine	5898	bulk					60	62.1			
34-0-0	Geraldine	5899	bulk	34	34.4							
34-0-0	Terry	5910	bulk	34	34.2							
0-44-0	Terry	5911	bulk			44	44.1					
18-46-0	Terry	5912	bulk	18	17.9	46	46.5					
18-46-0	Miles City	5913	bulk	18	18.0	46	46.4					
0-44-0	Miles City	5914	bulk			44	45.6					
FARMERS UNION GTA Box 205 Three Forks, MT 59752												
Blend	Three Forks	5552	bulk	17.8	17.8	17.8	16.7*	17.8	16.0			
GREAT PLAINS CROP MANAGEMENT Box 115 Geraldine, MT 59446												
20-0-0	Geraldine	5905	bulk	20	20.5					Sulfur	5	4.6
Blend	Geraldine	5906	bulk	13.6	16.6	6.8	6.2	3.2	3.6	Sulfur	3.4	3.6
GREAT SALT LAKE CHEMICAL & MINERAL Ogden, UT 84402												
0-0-50	Bridger	5500	bulk					50	51.3			
HI-LINE FERTILIZER Box 228 Hingham, MT 59528												
13-39-0	Havre	5510	bulk	13	13.5	39	39.7			Sulfur	10	8.1*
11-53-0	Kalispell	5659	bulk	11	11.5	53	49.4*					
46-0-0	Kalispell	5657	bulk	46	45.2							
10-34-0	Hingham	5829	bulk	10	9.5	34	34.7					
IMC Carlsbad, NM 88220												
0-0-22	Hamilton	5483	bulk					22	22.0			
0-0-60	Gt. Falls	5527	bulk					60	60.1			
0-0-60	Cut Bank	5593	bulk					60	62.7			

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
KALIUM CHEMICAL 4 Executive Park Drive Box 95666 Atlanta, GA 30347												
0-0-60	Havre	5507	bulk					60	61.9			
0-0-60	Gt. Falls	5533	bulk					60	61.8			
0-0-60	Geraldine	5572	bulk					60	62.1			
0-0-60	Belgrade	5583	bulk					60	62.5			
0-0-60	Belgrade	5626	bulk					60	63.1			
0-0-60	Kalispell	5660	bulk					60	61.7			
0-0-60	Ronan	5681	bulk					60	60.2			
0-0-60	Gt. Falls	5772	bulk					60	62.3			
0-0-60	Havre	5807	bulk					60	62.4			
0-0-60	Havre	5821	bulk					60	60.8			
0-0-60	Fairview	5838	bulk					60	62.7			
0-0-60	Kalispell	5840	bulk					60	62.7			
0-0-60	Billings	5855	bulk					60	62.4			
0-0-62	Gt. Falls	5878	bulk					62	63.9			
0-0-60	Geraldine	5901	bulk					60	61.8			
0-0-60	Geraldine	5902	bulk					60	64.2			
MONTANA AGRI-CHEMICALS, INC. Box 266 Belgrade, MT 59714												
10-32-0	Belgrade	5556	bulk	10	9.8	33	32.3					
MONTANA SULPHUR & CHEMICAL CO. Box 31118 Billings, MT 59103												
	Billings	5536	bag							Sulfur	99.9	99.1
	Belgrade	5554	bulk							Sulfur	90	86.2
	Kalispell	5661	bulk							Sulfur	90	87.8
Sulfur Flakes	Townsend	5803	bag							Sulfur	90	92.0
	Kalispell	5842	bulk							Sulfur	90	92.0
OCCIDENTAL CHEMICAL COMPANY Box 198 Lanthrop, CA 95330												
26-13-0	Billings	5541	bag	26	24.5*	13	15.5					
ORTHO CHEMICAL Kennewick, WA 99336												
34-0-0	Hamilton	5484	bulk	34	33.7							
PEAVEY COMPANY Box 779 Lewistown, MT 59457												

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
PEAVEY COMPANY (continued)												
34-0-0	Lewistown	5551	bulk	34	33.5							
0-0-60	Lewistown	5702	bulk					60	60.9			
SELSTAD SOIL SERVICE Box 43 Great Falls, MT 59403												
10-34-0	Geraldine	5571	bulk	10	10.0	34	35.3					
10-34-0	Gt. Falls	5887	bulk	10	9.8	34	34.4					
SHERRITT FERTILIZERS INC. 3030 SW 1st Avenue, Suite 25 Portland, OR 97201												
21-0-0	Gt. Falls	5525	bulk	21	20.9					Sulfur	24	24.7
21-0-0	Ryegate	5585	bulk	21	20.9							
21-0-0	Belgrade	5625	bulk	21	20.8					Sulfur	24	24.8
21-0-0	Gt. Falls	5773	bulk	21	20.9					Sulfur	24	29.4
21-0-0	Havre	5808	bulk	21	20.9					Sulfur	24	24.8
J. R. SIMPLOT COMPANY Box 912 Pocatello, ID 83201												
11-52-0	Hamilton	5482	bulk	11	11.2	52	52.3					
0-45-0	Hardin	5495	bulk			45	44.9					
34-0-0	Lewistown	5550	bulk	34	33.6							
21-0-0	Dillon	5605	bulk	21	20.8							
16-20-0	Dillon	5606	bulk	16	15.7	20	21.4					
0-45-0	Dillon	5607	bulk			45	45.6					
11-52-0	Dillon	5610	bulk	11	11.0	52	52.4					
16-20-0	Dillon	5614	bulk	16	15.7	20	20.4					
0-45-0	Sheridan	5623	bulk			45	46.4					
11-52-0	Hamilton	5637	bulk	11	11.1	52	52.2					
34-0-0	Sidney	5647	bulk	34	33.9							
18-46-0	Sidney	5648	bulk	18	17.9	46	46.4					
11-48-0	Sidney	5649	bulk	11	11.0	48	48.0					
18-46-0	Wolf Point	5656	bulk	18	17.8	46	46.1					
18-46-0	Conrad	5766	bulk	18	17.9	46	46.6					
34-0-0	Glasgow	5776	bulk	34	34.1							
18-46-0	Glasgow	5777	bulk	18	17.7	46	47.2					
18-46-0	Sidney	5782	bulk	18	17.8	46	46.3					
11-52-0	Sidney	5783	bulk	11	11.0	52	52.2					
34-0-0	Sidney	5784	bulk	34	34.2							
34-0-0	Fairview	5836	bulk	34	34.2							
18-46-0	Billings	5862	bulk	18	18.2	46	46.7					
16-20-0	Billings	5863	bulk	16	16.2	20	20.6					
34-0-0	Billings	5864	bulk	34	34.4							
18-46-0	Hardin	5865	bulk	18	18.2	46	47.6					

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	C	F
J. R. SIMPLOT COMPANY (continued)												
34-0-0	Hardin	5866	bulk	34	34.1							
18-46-0	Hardin	5875	bulk	18	18.0	46	45.8					
SPECIALTY FERTILIZERS Box 248 Laurel, MT 59044												
Blend	Laurel	5874	bulk	31	30.2	12	14.8	9	9.0			
STAUFFER CHEMICAL COMPANY 636 California Street San Francisco, CA 94108												
16-20-0	Hamilton	5485	bulk	16	15.8	20	20.7					
16-20-0	Kalispell	5662	bulk	16	15.5	20	20.3					
11-51-0	Hingham	5826	bulk	11	10.8	51	52.3					
16-20-0	Kalispell	5839	bulk	16	15.6	20	20.9					
WILLIAMS FEED, INC. Box 831 Dillon, MT 59275												
Blend	Sheridan	5624	bulk	22	22.6	22	22.1					
0-0-60	Helena	5787	bulk					60	62.3			
WYCON CHEMICALS COMPANY Box 1287 Cheyenne, WY 82001												
34-0-0	Bridger	5497	bulk	34	33.9							
12-0-0	Billings	5798	bulk	12	12.0					Sulfur	26	30.0
SOIL AMENDMENT												
EKO COMPOST 3700 Compost Road Missoula, MT 59801	Missoula	5755	bag							Cadium(ppm)	---	.64
										Mercury(ppm)	---	.11
										Lead(ppm)	---	11.0
	Missoula	5756	bulk							Cadium(ppm)	---	.70
										Mercury(ppm)	---	.14
										Lead(ppm)	---	18.0
U. S. SOIL CONDITIONING CO. Box 1037 Salida, CO 81201	Helena	5754	bag							Mercury(ppm)	---	.1
										Calcium	5	10.3
										Sulfur	5	5.8
										Iron	.4	1.0
										Cadium(ppm)	---	.04

SPECIALTY FERTILIZER ANALYSIS

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
ALASKA FISH FERTILIZER, INC. 865 Lind Avenue SW Renton, WA 98055												
.....	Gt. Falls	5753		5	5.1	1	1.5	1	1.9			
CHEVRON CHEMICAL COMPANY 940 Hensley Street Richmond, CA 94804												
Ortho Up Start.....	Miles City	5758		5	4.5	15	15.5	5	5.8			
Ortho House Plant Food.....	Miles City	5759		5	5.2	10	10.8	5	5.8			
Ortho Fern & Ivy Food.....	Miles City	5760		10	10.9	8	8.4	7	7.3			
Ortho Fish Emulsion.....	Miles City	5761		5	5.1	1	1.2	1	1.3			
Ortho Rose & Flower.....	Miles City	5762		8	8.7	12	13.2	4	4.8			
Bone Meal.....	Miles City	5763				12	18.3					
Ortho Greenol.....	Miles City	5764								Iron	6.13	5.92
Ortho Blood Meal.....	Miles City	5765		12	13.4							
DEXOL INDUSTRIES 1450 West 228th Street Torrance, CA 90501												
Fishsol Fish Emulsion.....	Gt. Falls	5748		5	4.7	2	2.8	2	2.4			
THE HYPONEX COMPANY, INC. 3489 Sawmill Road Copley, OH 44321												
House Plant Food.....	Bozeman	5736		5	4.5	10	11.3	5	5.6			
Professional Water Soluable Plant Food.....	Bozeman	5737		20	20.4	20	22.0	20	20.5			
House Plant Food.....	Bozeman	5743		7	8.7	6	7.4	19	20.4			
INTERNATIONAL SPIKE, INC. Box 1750 Lexington, KY 40593												
Jobe's for Beautiful Trees & Shrubs.....	Gt. Falls	5746		16	17.5	8	11.1	8	9.7			
Jobe's for more Productive Fruit Trees.....	Gt. Falls	5747		5	10.7	15	19.5	15	15.8			
CHARLES H. LILLY COMPANY 7737 NE Killingsworth Portland, OR 97318												
20-20-20 Plus.....	Bozeman	5733		20	18.9*	20	19.6	20	21.6			
Deoderized Fish Fert.....	Butte	5738		5	5.2	1	2.2	1	1.6			
Booster Powder Plant Food..	Butte	5739		5	6.9	10	12.3	14	15.0	Iron	2.8	2.0*
Liquid Super Rich.....	Butte	5740		4	4.6	8	6.5*	8	8.8	Iron	.1	

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
CHARLES H. LILLY COMPANY (continued)												
Tomato & Veg. Food	Butte	5741		4	5.8	8	6.4*	6	7.0	Iron	2	2.3
										Sulfur	5	5.1
LOS ANGELES SEED COMPANY, INC. Los Angeles, CA 90021												
Angel City Concentrated House Plant Food	Billings	5718		4	3.9	6	6.3	4	4.1			
MAGNOLIA PRODUCTS INC. 500 7th Avenue South Kirkland, WA 98033												
Compost Maker	Bozeman	5734		16	18.7	20	20.3			Sulfur	14	15.8
Geranium Bedding Plant	Bozeman	5735		4	4.2	16	18.5	8	6.6*	Sulfur	2.5	---
NORTHRUP KING COMPANY 1500 Jackson Street Minneapolis, MN 55413												
Winter Life	Billings	5727		10	10.9	15	15.0	5	5.6			
Lawn Food	Billings	5728		22	23.3	5	5.3	9	9.0			
Tomato Food	Billings	5729		5	6.7	20	26.1	20	15.0*			
PLANT RESEARCH LABORATORIES 2525 Dupont Drive Irvine, CA 92713												
Oxygen Plus Indoor	Bozeman	5732		1	1.1	2	2.6	1	1.1			
PLANTABBS CORP. Box 397 Timonium, MD 21093												
African Violet Plant Food	Bozeman	5742		11	11.8	15	18.5	20	20.8			
PROTEN PRODUCTS COMPANY 9th and Grayson Street Berkeley, CA 94710												
Proten Bud'N Bloom	Billings	5730		10	13.5	30	32.7	10	12.9			
RAINBIRD CORPORATION 7045 North Grand Avenue Glendora, CA 91740												
Rainbird Timed Release	Billings	5731		19	19.4	6	6.8	13	12.9			
RA-PID-GRO CORP. 88 Ossian Street Dansville, NY 14437												
Ra-Pid-Gro	Gt. Falls	5752		23	23.0	19	20.5	17	18.0			

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT C	MICRONUTRIENT F
ROSS DANIELS, INC. Box 65430 West Des Moines, IA 50265											
Fast-Acting Plant Food for Beautiful Trees	Billings	5716		25	25.8	10	12.8	10	12.9		
Fast-Acting Plant Food for Prize Roses, Flowers & Shrubs	Billings	5717		15	14.7	25	26.6	10	11.8		
SEARS ROEBUCK AND COMPANY Sears Tower 15th Floor Chicago, IL 60684											
Superfine Weed & Feed	Billings	5720		23	26.6	4	4.6	9	9.5		
Green Karpet Lawn Food	Billings	5721		20	22.3	10	9.3	5	6.0		
Feed and Weed	Billings	5722		10	13.0	6	7.7	4	6.1		
Superfine Lawn Food	Billings	5723		26	27.2	4	4.2	6	5.9		
Pre-Emerge Crabgrass Control & Fertilizer	Billings	5724		10	11.9	6	5.9	4	4.7		
STERN'S NURSERY, INC. 607 West Washington Street Geneva, NY 14456											
Miracle-Gro for Roses	Gt. Falls	5744		18	19.3	23	25.2	16	17.7		
Miracle-Gro for Tomatoes	Gt. Falls	5745		18	19.0	18	19.7	21	20.4		
SUPER AMERICA Box 2020 Ashland, KY											
Lawn Fertilizer	Miles City	5757		20	21.3	5	5.1	5	8.7		
3 M CENTER 3 M Center Building 223-IN St. Paul, MN 55144											
Precise Shrub & Tree	Billings	5715		20	20.1	10	10.6	10	10.9		
Precise Timed Release Flower Food	Billings	5719		6	6.6	12	12.9	6	7.3		
VOLUNTARY PURCHASING GROUP Box 460 Bonham, TX 75418											
Fertilome All Purpose Plant Food	Billings	5725		9	9.0	13	17.2	7	12.1		
Fertilome Weed Killer Plus Lawn Fertilizer	Billings	5726		25	26.5	4	4.2	4	4.0		

MANUFACTURER/DISTRIBUTOR BRAND/PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	BAG/ BULK	NITROGEN C	NITROGEN F	P_2O_5 C	P_2O_5 F	K_2O C	K_2O F	MICRONUTRIENT	MICRONUTRIENT C	MICRONUTRIENT F
MONTGOMERY WARD c/o Zoecon Corp. 975 California Ave. Palo Alto, CA 94304												
Turf Formula	Gt. Falls	5749		26	28.5	3	3.1	3	2.4*	Sulfur	7	8.5
										Iron	.8	.6*
Lawn Fertilizer	Gt. Falls	5750		20	21.4	5	6.1	5	4.8	Iron	1	1.0
Formula 2 Lawn Fert. & Weed Control	Gt. Falls	5751		22	25.2	3	6.6	3	2.8	Sulfur	7	9.8
										Iron	.8	.7

1982 FERTILIZER ANALYSIS BREAKDOWN

COMMERCIAL	NO. ANALYZED	NO. DEFICIENT	% DEFICIENT
Nitrogen	301	7	2.3
P_2O_5	203	6	2.9
K_2O	64	0	0
Sulfur	28	3	10.7
SOIL AMENDMENTS			
Cadium	3	0	0
Calcium	1	0	0
Iron	1	0	0
Lead	2	0	0
Mercury	3	0	0
Sulfur	1	0	0
SPECIALTY			
Nitrogen	46	1	2.2
P_2O_5	46	2	4.3
K_2O	45	3	6.7
Sulfur	4	0	0
Iron	6	2	0

FERTILIZER SAMPLING

YEAR	NO. SAMPLES TAKEN	NO. SAMPLES DEFICIENT	% DEFICIENT
1977	448	32	7.1
1978	533	30	5.6
1979	365	21	5.7
1980	506	27	5.3
1981	428	24	5.1

FERTILIZER TONNAGE

YEAR	TONNAGE
1972	226,939
1973	268,061
1974	219,197
1975	170,324
1976	283,925
1977	259,211
1978	301,487
1979	324,838
1980	295,958
1981	363,295

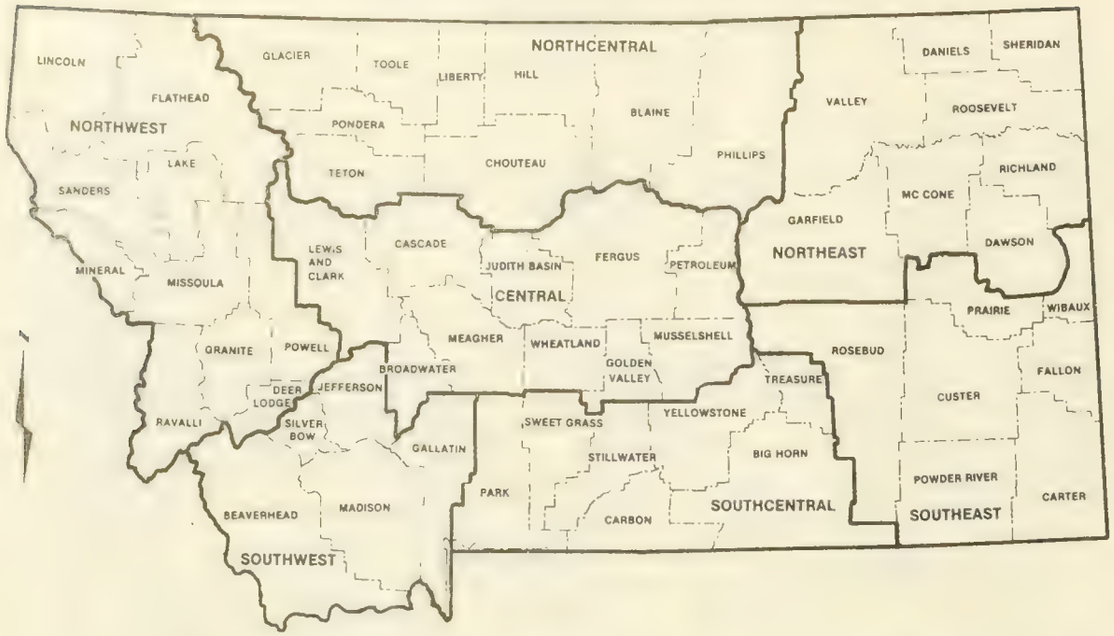
FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
By Crop Reporting Districts

January - June 1981

	NORTH WEST	NORTH CENTRAL	NORTH EAST	CENTRAL	SOUTH WEST	SOUTH CENTRAL	SOUTH EAST	OUT OF STATE
Anhydrous Ammonia	259	4,725	589	2,745	590	1,054	74	3,656
Ammonium Nitrate	3,723	15,433	2,549	10,498	6,966	11,080	1,885	789
Ammonium Sulfate	383	904	233	419	2,175	241	168	1
Ammonium Thiosulfate	4	132	245	103	112	0	0	791
Urea	623	9,513	1,389	3,942	632	2,745	140	150
Nitrogen Solutions	1,062	4,088	957	2,638	771	765	369	60
0-44-0, 0-45-0	111	651	602	367	884	894	525	1
Phosphoric Acid	0	75	0	0	0	142	0	0
Potash	1,292	4,395	539	1,804	1,103	1,103	1,055	213
Compost	625	0	0	0	0	0	0	43
Gypsum, Lime & Sulfur	176	150	39	26	102	365	34	384
Micronutrient Materials	18	228	369	162	48	160	43	1,097
18-46-0	958	11,439	7,580	4,511	1,582	5,322	2,473	250
16-20-0	3,923	2,806	84	1,629	3,484	1,756	38	621
11-48-0 — 11-55-0	1,047	13,861	2,703	7,801	2,220	1,585	775	412
30-10-0	0	54	0	180	0	397	28	0
10-34-0 (Liquid)	34	2,972	1,061	728	352	21	0	0
2-1-0 ratios i.e. 27-14-0	1,589	503	8	879	525	447	40	0
1-1-0 ratios i.e. 23-23-0	100	244	37	251	13	196	0	0
1-1-1 ratios i.e. 16-16-16	864	23	3	2	2	90	0	0
Misc. Custom Blends, i.e.								
15-10-7, 18-15-10, 24-17-0	812	217	0	457	24	36	8	21
8-38-15, 9-30-0, 13-39-0	222	27	0	160	76	259	32	0
20-10-10, 20-13-7, 29-17-5	27	140	0	94	109	158	10	0
0-0-13, 0-0-22	26	0	0	207	0	0	0	0
25-0-15, 34-0-20, 24-0-10	2	211	0	180	10	87	0	28
26-13-20, 21-7-14	0	128	0	133	63	71	0	0
Misc. Spec. Fert., i.e.								
22-3-3, 29-3-3	0	0	0	0	0	0	0	581
9-18-9	0	0	0	0	0	0	0	549
	17,880	72,919	18,987	39,916	21,843	28,974	7,697	9,647

FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
By Crop Reporting Districts

July - December 1981



	NORTH WEST	NORTH CENTRAL	NORTH EAST	CENTRAL	SOUTH WEST	SOUTH CENTRAL	SOUTH EAST	OUT OF STATE
Anhydrous Ammonia	34	11,860	749	5,766	635	2,833	213	4,605
Ammonium Nitrate	445	4,903	932	5,211	2,802	4,180	309	104
Ammonium Sulfate	51	1,885	125	225	1,029	233	42	0
Ammonium Thiosulfate	28	482	0	510	6	8	0	102
Urea	130	7,572	804	1,796	413	1,609	120	1
Nitrogen Solutions	327	2,560	725	1,793	217	2,264	103	25
0-44-0, 0-45-0	117	296	358	99	10	226	77	0
Phosphoric Acid	0	295	0	0	0	177	0	0
Potash	373	3,033	447	1,354	623	550	437	203
Compost	155	0	0	0	0	0	0	0
Gypsum, Lime & Sulfur	34	50	62	316	8	98	43	5
Micronutrient Materials	0	18	44	45	58	116	2	287
18-46-0	330	8,516	4,854	4,213	1,068	6,509	2,534	4
16-20-0	443	686	25	983	1,688	812	3	0
11-48-0 -- 11-55-0	270	11,910	2,758	7,536	1,503	1,916	730	168
30-10-0	0	83	0	39	22	16	0	0
10-34-0	19	3,558	34	512	340	35	0	0
2-1-0 ratios i.e. 27-14-0	144	52	3	393	25	36	0	0
1-1-0 ratios i.e. 23-23-0	0	92	0	68	31	10	0	0
1-1-1 ratios i.e. 16-16-16	70	0	0	0	25	9	0	0
Misc. Custom Blends, i.e. 16-13-8-1, 30-25-25-17, 25-18-0-10	402	474	158	141	65	290	0	0
18-36-18, 10-25-10, 24-20-6	66	404	22	303	0	115	0	0
0-30-30, 0-30-18	0	33	0	27	0	18	0	0
Misc. Spec. Fert., i.e. 22-3-3, 6-4-4, 34-3-7	1	0	0	0	0	0	0	248
9-18-9	0	0	0	0	0	0	0	140
	3,439	58,762	12,100	31,330	10,568	22,060	4,613	5,892

MONTANA DEPARTMENT OF AGRICULTURE

SUMMARY OF FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA

1981

	Materials	January-June	July-December	TOTAL
		TONS		
1.	Anhydrous Ammonia	13,692	26,695	40,387
2.	Ammonium Nitrate	52,923	18,886	71,809
3.	Ammonium Sulfate	4,524	3,590	8,114
4.	Ammonium Thiosulfate	1,387	1,136	2,523
5.	Urea	19,134	12,445	31,579
6.	Nitrogen Solutions	10,710	8,014	18,724
7.	0-44-0, 0-45-0	4,055	1,183	5,238
8.	Phosphoric Acid	217	312	529
9.	Potash	11,504	7,020	18,524
10.	Compost	668	155	823
11.	Gypsum, Lime & Sulfur	1,276	616	1,892
12.	Micronutrient Materials	2,125	570	2,695
	Ammoniated Phosphates & Mixtures			
13.	18-46-0	34,115	28,028	62,143
14.	16-20-0	14,341	4,640	18,981
15.	11-48-0 — 11-55-0	30,404	26,791	57,195
16.	30-10-0	659	160	819
17.	10-34-0 (Liquid)	5,168	4,498	9,666
18.	2-1-0 ratios i.e. 27-14-0	3,991	653	4,644
19.	1-1-0 ratios i.e. 23-23-0	841	201	1,042
20.	1-1-1 ratios i.e. 16-16-16	984	104	1,088
	Misc. Custom Blends, i.e.			
21.	15-10-7, 18-15-10, 25-18-7	1,575	1,530	3,105
22.	8-38-15, 9-30-0, 18-36-18	776	910	1,686
23.	20-10-10, 20-13-7, 29-17-5	538		538
24.	0-0-13, 0-0-22, 0-30-18	233	78	311
25.	25-0-15, 34-0-20, 24-0-10	518		518
26.	26-13-20, 21-7-14	395		395
	Misc. Spec. Fert., i.e.			
27.	22-3-3, 29-3-3	581	249	830
28.	9-18-9	549	140	689
	TOTAL, ALL FERTILIZERS AND MATERIALS	217,863	148,604	366,487
	Total Nitrogen	57,442	46,135	103,577
	Total P_2O_5	40,051	30,688	70,739
	Total K_2O	7,659	4,232	11,891

MONTANA DEPARTMENT OF AGRICULTURE
PLANT INDUSTRY DIVISION
AGRICULTURE/LIVESTOCK BLDG.
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